

Exploitation Algorithm Development and Validation Monthly Progress Report: July 2019

Contract Number: N00014-19-C-2032
Project Title: Exploitation Algorithm Development and Validation
Total Contract Amount: \$4,999,701.00
Total Funded Amount: \$ (b) (4)
Controlling DoD Office Name: Office of Naval Research
Controlling DoD Office Address: 875 N. Randolph St., Arlington VA 22217
Performing Organization Name: MDA Information Systems
Performing Organization Address: 1200 Joe Hall Drive, Ypsilanti MI 48197
Period Covered in this Report: 1 July 2019 – 31 July 2019

Costs Incurred in this Period: \$ (b) (4)
Costs Incurred to Date: \$ (b) (4)
Estimated Cost to Complete Funded Tasks: \$ (b) (4)

Schedule of Near Term Deliverables:

Quarterly Project Review	09/05/2019
Quarterly Project Review	12/05/2019

Anticipated Problems and Actions Required:

(b)(4)

Progress and Major Accomplishments

Figure 1 shows the costs to date. The blue line is the amount funded to date; the green line is actual cumulative costs to date.

(b) (4)

Figure 1: Costs to date. Blue line is the amount funded to date. Green line is actual cumulative costs to date.

The general categories of work described in the SOW are:

- Improvement to existing algorithms to address capability gaps discovered during operational use;
- Development of new algorithms to extract additional environmental and obstacle information from an expanded set of remote sensing systems;
- Implementation of the algorithms onto airborne platforms and incorporation into their ground station systems;
- Application of deep learning solutions for improved algorithm performance;
- Development and validation of image simulations and models to support algorithm evaluation; and
- Support to sponsor and operational units in utilizing the algorithms to attain mission goals.

We will describe work performed each month for each of these general categories below.

Algorithm Improvements

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New Algorithm Development

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Airborne and Ground System Implementation

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Deep Learning Solutions

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Image Simulation and Modeling

(b)(4)

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Operational Support

(b)(4)

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